

BS01042

U.S. Application No. 10/017,428 Art Unit 2623
Response to March 23, 2007 Office Action**AMENDMENT TO THE CLAIMS**RECEIVED
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1. (Previously Presented) A digital residential entertainment system, comprising:
 - a media server tuning to a transport layer and transmitting the entire transport layer, rather than a single program stream, over a system bus;
 - a broadband input/output module receiving the transport layer from the system bus and sending the transport layer to a network bus;
 - a network input/output module receiving the transport layer from the network bus;
 - a decryption module that receives the transport layer from the network input/output module and that decrypts the transport layer;
 - a demultiplexer that receives the decrypted transport layer and that demultiplexes the decrypted transport layer; and
 - a decoder that decodes the demultiplexed and decrypted transport layer.
2. (Previously Presented) The digital residential entertainment system of claim 1, further comprising a digital-to-analog converter that converts the decoded transport layer to analog signals.
3. (Currently Amended) The digital residential entertainment system of claim 2, further comprising a conditional access system that restricts access to media services offered via the transport layer to authorized customers, and wherein the decoder is connected to a media bus and the decoder sends the decoded, multiplexed, and decrypted transport layer to the media bus.
4. (Currently Amended) The digital residential entertainment system of claim 3, wherein the conditional access system comprises a card reader and an access card, and wherein the transport layer includes multiple program signals.

BS01042

U.S. Application No. 10/017,428 Art Unit 2623
Response to March 23, 2007 Office Action

5. (Currently Amended) The digital residential entertainment system of claim 3, wherein the conditional access system comprises a secured network conditional access system, and further comprising an Ethernet switch connected to the network bus and that receives the transport layer from the network bus.
6. (Previously Presented) The digital residential entertainment system of claim 5, wherein the secured network conditional access system comprises a secured Internet Protocol (IP) connection to an authentication service provider.
7. (Previously Presented) The digital residential entertainment system of claim 6, wherein the secured Internet Protocol (IP) connection is an IPsec connection.
8. (Previously Presented) The digital residential entertainment system of claim 5, wherein the secured network conditional access system comprises a broadband connection to an authentication service provider.
9. (Previously Presented) The digital residential entertainment system of claim 8, wherein the broadband connection is a private virtual circuit (PVC) connection.
10. (Previously Presented) The digital residential entertainment system of claim 1, wherein the decrypting, demultiplexing and decoding functions are integrated into a single chip.
11. (Previously Presented) The digital residential entertainment system of claim 1, wherein the network input/output module, the decryption module, the demultiplexer and the decoder comprise a computer-readable medium comprising computer-readable instructions, which when executed perform the functions of the network input/output module, the decryption module, the demultiplexer and the decoder.
12. (Currently Amended) A digital residential entertainment system, comprising:

BS01042

U.S. Application No. 10/017,428 Art Unit 2623
Response to March 23, 2007 Office Action

a tuner array connected to a system bus, the tuner array receiving and demodulating a plurality of transport layers, tuning to a specific transport layer identified by a decoder and sending the entire identified transport layer, rather than a single program stream, over the a system bus;

a broadband input/output module connected to the system bus and receiving the transport layer from the system bus and sending the transport layer to a network bus;

a network input/output module connected to the network bus and retrieving the transport layer from the network bus;

a decryption module connected to the network input/output module and that receives the transport layer from the network input/output module and that decrypts the transport layer;

a demultiplexer connected to the decryption module and that receives the decrypted transport layer and that demultiplexes the transport layer; and

another decoder connected to the demultiplexer that decodes the demultiplexed and decrypted transport layer.

13. (Previously Presented) The digital residential entertainment system of claim 12, wherein the decoder is part of a thin client set top box.
14. (Currently Amended) The digital residential entertainment system of claim 12, further comprising a digital-to-analog converter that converts the transport layer to analog signals, and wherein the digital-to-analog converter is connected to a media bus and the digital-to-analog converter sends the decoded, multiplexed, and decrypted transport layer to the media bus.
15. (Currently Amended) The digital residential entertainment system of claim 12, further comprising a conditional access system connected to the another decoder that restricts access to media services offered via the transport layer to authorized customers.

BS01042

U.S. Application No. 10/017,428 Art Unit 2623
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16. (Previously Presented) The digital residential entertainment system of claim 12, wherein the transport layer is an Ethernet transport layer.